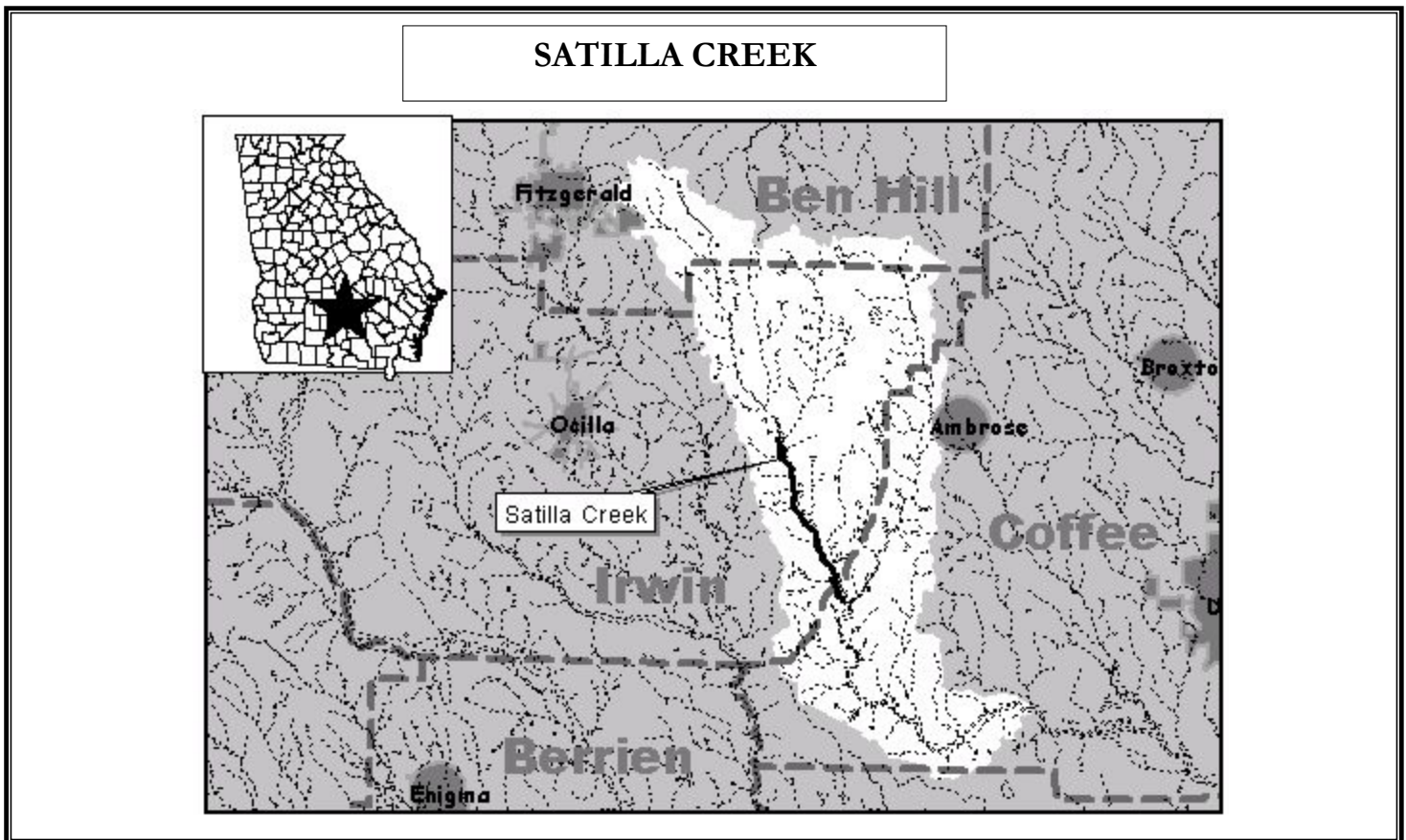


**STATE OF GEORGIA  
TMDL IMPLEMENTATION PLAN**

**SATILLA CREEK  
(Fecal Coliform)**

Prepared by  
**The Georgia Department of Natural Resources  
Environmental Protection Division  
Atlanta, GA**

TMDL Implementation Plans are platforms for establishing a course of actions to restore the quality of impaired water bodies in a watershed. They are intended as a continuing process that may be revised as new conditions and information warrant. Procedures will be developed to track and evaluate the implementation of the management practices and activities identified in the plans. Once restored, appropriate management practices and activities will be continued to maintain the water bodies. The overall goal of the Plan is to define a set of actions that will help achieve water quality standards in the state of Georgia. This plan was originally prepared as an implementation inventory by the Southeast Georgia RDC with a Section 604(b) Grant. TMDL load allocation information has been updated to reflect the approved TMDL.



Impaired Waterbody*	Impaired Stream Location	River Basin	Miles/Area Impacted	Partially Supporting/ Not Supporting
Satilla Creek	Tributary to Satilla River in Coffee County	Satilla	7 miles	Partially Supporting

# **TMDL IMPLEMENTATION PLAN SATILLA CREEK, COFFEE COUNTY, GEORGIA**

Satilla Creek in Coffee County, Georgia has a fishing water use classification and is currently listed as an impaired water body. The degree of impairment is classified as a partially supporting use and the TMDL for Satilla Creek is set at a target level of 150 cfu/100 ml of water, a level that will allow the water body to achieve water quality standards necessary for the fishing use classification.

A Total Maximum Daily Load (TMDL) is a calculation of the maximum amount of a pollutant, from both point and non-point sources, that a water body can receive and still meet water quality standards. The Clean Water Act, section 303, establishes the water quality standards and the TMDL's. The 303(d) list is an inventory of impaired streams and water bodies. Although some TMDL's are aimed at managing all sources of pollution which affect beneficial uses of water, the focus of this implementation plan relates primarily to nonpoint sources. The purpose of this plan is to provide a framework of goals, objectives, and strategies for reducing or eliminating the pollutants contained in the runoff into Satilla Creek.

The Southeast Georgia Regional Development Center's planning staff has guided the process of developing the TMDL Implementation Plan for Satilla Creek. The process began with a meeting of a small stakeholder committee comprised of representatives from Coffee County, the Coffee County Planning Commission, and the Coffee County Industrial Authority. The individuals who made up the committee were already knowledgeable about TMDL's and the need for an implementation plan. It was quickly agreed that private septic systems and agricultural animals were the most likely sources of fecal coliform in the stream. However, participants in the discussion were concerned that a TMDL Implementation Plan was being prepared since such a small portion of Satilla Creek actually flows within the borders of Coffee County. *The majority of the stream in question flows in neighboring Irwin County.*

The decision was reached that the implementation plan should primarily focus on monitoring, specifically of the areas in proximity to high concentrations of private septic systems and agricultural operations. Education is another important element of the plan. Coffee County also intends to reexamine and possibly improve existing buffer regulations.

## STATE OF GEORGIA

TMDL IMPLEMENTATION PLAN FOR: Satilla Creek  
(STREAM)Fecal Coliform  
(PARAMETER)RIVER BASIN: Satilla  
PLAN DATE: September 30, 2001

Prepared by: Southeast Georgia Regional Development Center Address: 3395 Harris Road City: Coffee County      State: Georgia      Zip: 31503 e-mail: <a href="mailto:bdhsegardc@accessatc.net">bdhsegardc@accessatc.net</a>  Date Submitted to EPD: 3/15/2001		Or Prepared By: _____ Address: _____ City: _____ State: _____ Zip: _____ e-mail: _____ Date Submitted to EPD: _____	
<b>General Information</b>  Obtain this information from the TMDL document or other information. When completed, this document will be a self-contained report independent of the TMDL document.		<b>Significant Stakeholders</b>  Identify local governments, agricultural organizations or significant land holders, commercial forestry organizations, businesses and industries, and local organizations including environmental groups with a major interest in this water body.	
TMDL ID (to be entered by EPD)	SAT0000011	Name/Organization	Coffee County
Water body name	Satilla Creek	Address	101 South Peterson Avenue
HUC basin name	Satilla River	City	Douglas
HUC number	03070201	State	GA
Primary county	Coffee	Zip	31533
Secondary county	None	Phone	(912) 384-4799
Primary RDC	Southeast Georgia	e-mail	
Secondary RDC	None	Name/Organization	Coffee County Planning Commission
Water body location	Tributary to Satilla River in Coffee County	Address	P.O. Box 470
Miles or area impacted	7 miles	City	Douglas
Parameter addressed in plan	Fecal coliform	State	GA
Water use classification	Fishing	Zip	31534
Degree of impairment	Partially supporting use <b>X</b>	Phone	(912) 384-1873
	Not supporting use	e-mail	
Date TMDL approved by EPA	June 2000	Name/Organization	Coffee County Industrial Authority
Impairment due to	Point sources	Address	P.O. Box 2470
	Nonpoint sources <b>X</b>	City	Douglas
	Both	State	GA
Point source-Form A; Nonpoint source-Form B; Both-Form A+B+C		Zip	31534
		Phone	(912) 384-1873
		e-mail	

If more, add to comments on last page.

# FORM B

SUMMARY OF ALLOCATION MODEL RESULTS FROM TMDL DOCUMENT (existing load, target TMDL, and needed reduction)

EXISTING LOAD	ALLOCATED LOAD	PERCENT REDUCTION
$1.7 \times 10^{12}$	$1.2 \times 10^{12}$	29%

I. IDENTIFY **NONPOINT SOURCE** CATEGORIES AND SUBCATEGORIES OR INDIVIDUAL SOURCES WHICH MUST BE CONTROLLED TO IMPLEMENT LOAD ALLOCATIONS:

List major nonpoint sources contributing to impairment including those identified in TMDL document.

SOURCE	DESCRIPTION OF CONTRIBUTION TO IMPAIRMENT	RECOMMENDED LOAD REDUCTION (FROM TMDL)
Animal Agriculture	Some parcels contain large numbers of chickens, cows, pigs, etc.	50%
Septic Tanks	Older septic tanks often malfunction; when tanks are pumped out, sewage could be spilled or illegally dumped.	90%
Residential Development (Pets)	Many residents have one or more non-agricultural animals on their property that could contribute to the fecal coliform levels in the stream.	90%

II. DESCRIBE ANY REGULATORY OR VOLUNTARY ACTIONS INCLUDING MANAGEMENT MEASURES OR OTHER CONTROLS BY GOVERNMENTS OR INDIVIDUALS THAT SPECIFICALLY APPLY TO THE POLLUTANT AND THE WATERBODY FOR WHICH THE TMDL WAS WRITTEN, THAT WILL BE ACCOMPLISHED THROUGH RELIABLE AND EFFECTIVE DELIVERY MECHANISMS, AND THAT WILL HELP ACHIEVE THE LOAD ALLOCATIONS IN THE TMDL:

See the attachment for more instructions.

Existing or required regulatory actions

<b>RESPONSIBLE GOVERNMENT, ORGANIZATION OR ENTITY</b>	<b>NAME OF REGULATION/ORDINANCE</b>	<b>DESCRIPTION</b>	<b>ENACTED OR PROJECTED DATE (mm/yy)</b>	<b>STATUS</b>
Coffee County	Soil Erosion & Sedimentation Plan	State model ordinance adopted by Coffee County Commission – BMP's.	6/98	Active
Coffee County	Septic Tank Ordinance	Requires permit for new septic tanks.	3/74	Active
Coffee County	Subdivision Ordinance	Requires report of drainage plans for new subdivisions.	3/74	Active

Existing voluntary actions

<b>RESPONSIBLE ORGANIZATION OR ENTITY</b>	<b>NAME OF ACTION</b>	<b>DESCRIPTION</b>	<b>ENACTED OR PROJECTED DATE (mm/yy)</b>	<b>STATUS</b>
Coffee County	Land Use Plan	Estimated 20-year future land uses.	10/91	To be updated 7/1/07

Additional recommended regulatory or other measures which should be implemented to reduce the loads of the TMDL parameter

ENTITY/ORGANIZATION RESPONSIBLE	NAME OF PROPOSED REGULATION/ORDINANCE/ OTHER	DESCRIPTION	ENACTED OR PROJECTED DATE (mm/yy)	STATUS
Coffee County	Septic Tank Survey	Survey to determine the location, number, and operational status of area septic tanks.	TBA	TBA
Coffee County	Stormwater Treatment	Retention ponds could be used to separate pollutants from stormwater runoff before entering the stream.	TBA	TBA
Coffee County School System	River Kids Program	A state-approved environmental curriculum for use in schools for education and public service.	TBA	TBA

### III. SCHEDULE FOR IMPLEMENTING MANAGEMENT MEASURES OR OTHER CONTROL ACTIONS:

These must be implemented as expeditiously as practicable within five years of when the implementation plan is accepted by EPA.

IMPLEMENTATION ACTION	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
Form stakeholders group	X				
Organize implementation work with stakeholders and local officials to identify remedial measures and potential funding sources	X				
Identify sources of TMDL parameter		X			
Develop management programs to control runoff including identification and implementation of BMPs (Phase I):					
Agriculture	X	X	X	X	X
Forestry					
Urban	X	X	X	X	X
Mining					
Organize and implement education and outreach programs	X	X			
Detect and eliminate illicit discharges	X	X	X	X	X
Evaluate additional management controls needed	X	X	X	X	X
Monitor and evaluate results	X	X	X	X	X
Reassess TMDL allocations					X
Provide periodic status reports on implementation of remedial activities	X	X	X	X	X
If needed, begin process for Phase II (next 5 years) and subsequent phases				X	X

#### IV. PROJECTED ATTAINMENT DATE AND BASIS FOR THAT PROJECTION:

The projected attainment date is 10 years from acceptance of the implementation plan by EPA.

#### V. MEASURABLE MILESTONES:

- Number of management controls and activities already implemented 2
- Number of management controls and activities proposed in five-year work program 11
- Number of management controls and activities actually implemented in five-year work period \_\_\_\_\_(to be completed after 5 years)
- Stream sampled to identify areas of concern See monitoring plan
- Other \_\_\_\_\_
- Other \_\_\_\_\_

#### VI. MONITORING PLAN:

Monitoring data that placed stream on 303(d) list will be provided if requested.

Describe previous or current sampling activities or other surveys to detect sources or to measure effectiveness of management measures or other controls.

ORGANIZATION	TIME FRAME	PARAMETERS	PURPOSE	STATUS

Describe any planned or proposed sampling activities or other surveys. (Scheduled EPD sampling can be found in the Basin Planning document.)

ORGANIZATION	TIME FRAME	PARAMETERS	PURPOSE	STATUS
EPD	2003	Multiple	Basin Planning	Ongoing
Southeast Health Unit	2001 until fecal coliform levels meet threshold	Fecal Coliform	To determine success of plan implementation.	Under development

#### VII. CRITERIA TO DETERMINE WHETHER SUBSTANTIAL PROGRESS IS BEING MADE:

- % concentration or load change (monitoring program)
- Categorical change in classification of the stream (delisting the stream is the goal)
- Regulatory controls or activities installed (ordinances, laws)
- Best management practices installed (agricultural, forestry, urban)

#### COMMENTS

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